Gu/rb
19. März 2001

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Plastic container with snap lid and a sealing web located on the inside of the container

Patent claims

1. Plastic container with a snap lid, the container having an upper edge region, an inside and a snap element provided on the upper edge region of the container for the lid to snap onto, where the lid has a circumferential sealing web projecting downwards that contacts the inside of the container providing a sealing region, where at least one projection that extends in an essentially radial and essentially vertical direction is provided on the lid radially inside the sealing web, c h a r a c t e r i s e d i n t h a t the vertical extension of the area of the projection adjacent to the sealing web is small relative to the total vertical extension of the projection.

2. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t areas of the projection adjacent to the sealing web are provided which are designed as walls extending perpendicularly to the sealing web, the vertical extension of the walls adjacent to the sealing web is small relative to their total vertical extension.

3. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t the projection is spaced radially apart from the sealing web located on the inside of the container.

4. Container as per Claim 3, c h a r a c t e r i s e d i n t h a t the projection is located on an inside circumferential edge integrally moulded on the sealing web an extends radially inward from the circumferential edge.

5. Container as per Claim 4, c h a r a c t e r i s e d i n t h a t the circumferential edge extends in the radial direction over one or more times the wall thickness from the inside of the sealing web and at least one projection is located radially inside relative to the circumferential edge.

6. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t the area of the projection integrally moulded on the sealing web is spaced apart from the area of the sealing web that provides the greatest sealing effect.

7. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t the sealing region of the sealing web is in the region of the vertical height of the projections.

8. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t at least one projection is integrally moulded on the lid at the height of the top side of an area extending radially inwards from the sealing web and sloping down towards the inside of the container.

9. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t an additional circumferential sealing region is provided and in that areas of the projection of the lid integrally moulded on the sealing web and extending radially inward are spaced vertically apart from the additional sealing region.

10. Container as per Claim 9, c h a r a c t e r i s e d i n t h a t, the additional circumferential sealing region in arranged in the region of the top edge of the

container.

11. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t an indentation is formed in the inside wall of the container below the sealing web, on which the lower, free end of the sealing web can rest.

12. Container as per Claim 11, c h a r a c t e r i s e d i n t h a t an area projecting upwards beyond the bottom edge of the web is provided on the inside wall of the container, which lies radially inward relative to the circumferential sealing web.

13. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t the inside lid surface on the inside of the container is positioned at a level not higher than the bottom edge of the sealing web.

14. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t at least one radially projecting reinforcing rib is integrally moulded on the container edge in the region of the top edge of the container.

15. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t the sealing region of the sealing web on the inside of the container is roughly level with the outer snap edge.

16. Container as per Claim 14, c h a r a c t e r i s e d i n t h a t the sealing region of the sealing web on the inside of the container is roughly level with the outer reinforcing rib of the container.

17. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t a further sealing region between the top edge of the container and the lid is provided with a circumferential seal made of a material of greater elasticity than that of the container and the lid.

18. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t the container has a main axis and that an area which slopes down towards the inside wall of the container and is at an acute angle to the main axis of the container is provided radially inward on the top edge of the container.

19. Container as per Claim 17, c h a r a c t e r i s e d i n t h a t the container has a main axis and that the seal is provided with an area which slopes down towards the inside wall of the container and is at an acute angle to the main axis of the container is provided radially inward on the top edge of the container.

20. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t at least one contact surface for lateral contact with the lid, which projects radially outward, is integrally moulded on the area adjacent to the top edge of the container on the outside.

21. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t the outside of the upper region of the container has a downward-facing circumferential collar region, which is joined in the region of the top edge of the container.

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Summary

The invention relates to a plastic container with a snap lid and with a snap element provided on the upper edge region of the container for the lid to snap onto, where the lid has a circumferential sealing web projecting downwards that contacts the inside of the container, where at least one projection that extends in an essentially radial and essentially vertical direction is provided on the lid radially inside the sealing web. In order to design a plastic container with snap lid, which fulfils the special demands imposed on leak-proofness, while simultaneously providing high load-bearing capacity, a container is proposed in which the vertical extension of the area of the projection adjacent to the sealing web is small relative to the total vertical extension of the projection. The inward-facing projection can be located on an inside circumferential edge integrally moulded on the sealing web. In addition to the sealing web, another circumferential seal is provided in the region of the top edge of the container. (Fig. 2)